

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P O Box 1450 Alexandria, Virgiria 22313-1450 www.uspoj.cov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/967,048	09/28/2001	Athanasios A. Kasapi	42P28115	4810
45209 INTEL/BSTZ	7590 02/18/200	EXAMINER		
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP			NGUYEN, KHAI MINH	
	1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040		ART UNIT	PAPER NUMBER
		2617		
			MAIL DATE	DELIVERY MODE

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
09/967,048	KASAPI, ATHANASIOS A.	
Examiner	Art Unit	
KHAI M. NGUYEN	2617	

	KHAI M. NGUYEN	2617					
The MAILING DATE of this communication appe	ars on the cover sheet with the o	correspondence add	ress				
THE REPLY FILED 30 January 2009 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.							
 X The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Apper for Continued Examination (RCE) in compliance with 37 C periods: 	replies: (1) an amendment, affidavi eal (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request				
a) The period for reply expiresmonths from the mailing	data of the final rejection						
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire la	dvisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing	date of the final rejection	in.				
Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).						
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of ext under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set set forth in (a) above, if checked. Any reply received by the Office later may reduce any earned patient term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount hortened statutory period for reply origi than three months after the mailing dat	of the fee. The appropria nally set in the final Offic	ate extension fee e action; or (2) as				
 The Notice of Appeal was filed on . A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a). 							
AMENDMENTS							
The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because (a) They raise new issues that would require further consideration and/or search (see NOTE below); (b) They raise the issue of new matter (see NOTE below);							
(c) They are not deemed to place the application in bett appeal; and/or		ducing or simplifying th	ne issues for				
(d) ☐ They present additional claims without canceling a c	corresponding number of finally reje	ected claims.					
NOTE: (See 37 CFR 1.116 and 41.33(a)).							
4. The amendments are not in compliance with 37 CFR 1.12	21. See attached Notice of Non-Co	mpliant Amendment (I	PTOL-324).				
 Applicant's reply has overcome the following rejection(s): 							
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 		•					
 For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prov 		l be entered and an ex	xplanation of				
The status of the claim(s) is (or will be) as follows: Claim(s) allowed:							
Claim(s) objected to:							
Claim(s) rejected:							
Claim(s) withdrawn from consideration:							
AFFIDAVIT OR OTHER EVIDENCE	before or an the date of filling a ble	tion of Annual will not	be entered				
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 							
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary 	vercome <u>all</u> rejections under appea	al and/or appellant fail:	s to provide a				
10. The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER							
11. The request for reconsideration has been considered but	does NOT place the application in	condition for allowan	ce because:				
12. Note the attached Information Disclosure Statement(s). (13. Other:	PTO/SB/08) Paper No(s).						
/VINCENT P. HARPER/ Supervisory Patent Examiner, Art Unit 2617							
· · · · · · · · · · · · · · · · · · ·							

Regarding claim 1-9 and 11-22, Applicant argues, on pages 2-4 of the remarks, that Buehrer in view of Boariu do not disclose, teach, or suggest "(1) generating a plurality of sub-carriers to redundantly transmit the information oner a multi-carrier wireless communication channel; (2) wherein each of the sub-carriers is to be transmitted over an array of two or more antennas; (3) wherein each of the sub-carriers is modified by a set of complex weights to ensure that each of the sub-carriers of the wireless communication channel propagates along a different physical path to the receiver; (4) wherein the set of complex weights used to modify each of the sub-carriers includes different weights for each of the two or more antenna of the array."

The Examiner respectfully disagrees with Applicant's argument because the current claim language is broad enough to be met by Buehrer in view of Boariu.

Buehrer in view of Boariu clearly disclose:

(1) generating a plurality of sub-carriers (see Buehrer, [0013] The transmission matrix maps the user data symbols onto the Walsh codes for each antenna and is preferably designed such that its columns are representative of the transmit antennas and are orthogonal. Similar redistribution occurs for each of the M transmit antennas such that the respective component in each of the M transmit signals associated with a given mobile's data signal modulates a unique Walsh code) to redundantly transmit (see Buehrer, abstract (each transmit antenna transmits a signal representing the result of the modulation of Walsh codes by data signals for each of the K mobiles (use the same data for each antennas)) the information over a multi-carrier wireless communication channel (see Buehrer, fig.1, [0061]);

(2) wherein each of the sub-carriers (see Buehrer, fig.2, item 202) is to be transmitted over an array of two or more antennas (see Buehrer, antennas 1 and 2);

(3) wherein each of the sub-carriers is modified by a set of complex weights to ensure that each of the sub-carriers of the wireless communication channel propagates along (see Boariu, col.24, line 41 to col.25, line 13) a different physical path (see Boariu, fig.3, Items 314, 316, and 318) to the receiver (see Boariu, fig.3, Items 314, 316, and 318, and 3

(4) wherein the set of complex weights (different Walsh codes/see Boariu, symbols) used to modify each of the sub-carriers includes different weights (different Walsh codes/see Boariu, symbols) for each of the two or more antenna of trarrary (see Buehrer, [0091] The two modulated signals are then combined in summer 938-1 and transmitted by Antenna 1 as 1(t). As mentioned, s2(t) and s3(t) for Antenna 1 and s1(t). S2(t) and s3(t) for Antenna 1 and s1(t). S2(t) and s3(t) for Antenna 1 and s1(t). S3(t) and s3(t) for Antenna 2 in Sa(t) for Antenna 3 in Sa(t) for Antenna 3 in Sa(t) for Antenna 4 in Sa(t) for Antenna 4 in Sa(t) for Antenna 5 in Sa(t) for Sa(t

/Khai M Nguyen/ Examiner Art Unit 2617